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JST

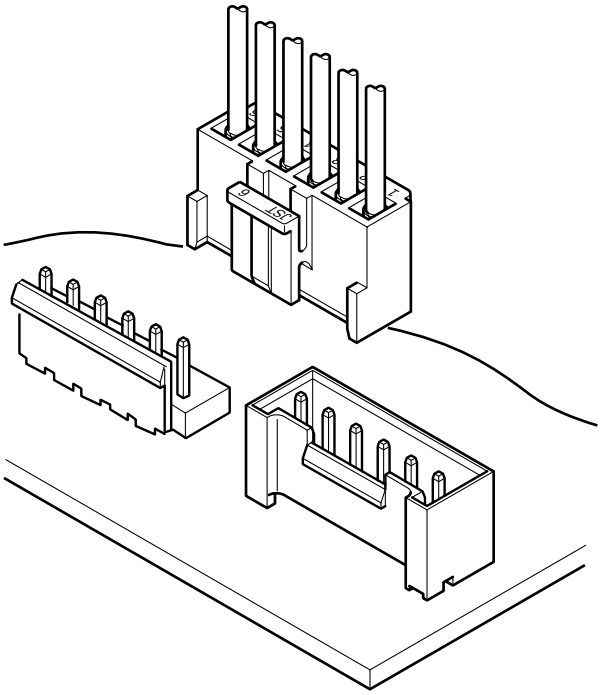
Crimp

3.96mm
(.156") pitch

VH CONNECTOR

Disconnectable Crimp style connectors

This small, field-proven connector for printed circuit boards is reliable and has a large current carrying capacity. It can be used with a wide variety of signal, power supply, and output circuits that appear in consumer electronic products.



Features

• *Proven box contact*

This connector was developed with the same box-shaped contact design used successfully in the NH connectors. The reliable VH connector can be used in a wide variety of applications, from low-voltage, low-current signal circuits to power supply circuits having a relatively large capacity.

• *Compact connector with a large capacity*

Even though this connector has a large current carrying capacity (10A), it is compact, with a mounting height of 16.5mm (.650").

• *Secure contact and mounting*

The housing has a lock mechanism which prevents the connector from coming loose due to vibration. The mechanism also prevents misinsertion (misalignment or reverse insertion).

Specifications

- Current rating: 10A AC, DC (AWG#16)
- Voltage rating: 250V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
  After environmental testing/20m Ω max.
- Insulation resistance: 1,000M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #22 to #16
- Applicable PC board thickness: 1.6mm(.063")

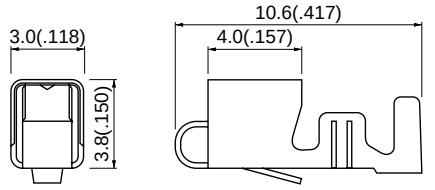
Note:
Do not branch in parallel current which exceeds the rated current. If branched in parallel, current imbalance or other problems may develop. If it is absolutely necessary to branch such a large current in parallel, be sure to use contacts made of phosphor bronze. Design the circuits without causing imbalance and provide an extra margin for each circuit.

*Contact JST for details.

Standards

0 Recognized E60389
1 Certified LR20812
2 R75122

Contact



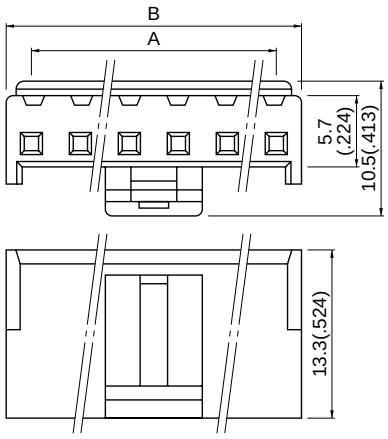
Model No.	Applicable wire			Q'ty / reel
	mm²	AWG #	Insulation O.D. mm(in.)	
SVH-21T-P1.1	0.33 to 0.83	22 to 18	1.7 to 3.0 (.067 to .118)	4,500
SVH-41T-P1.1	0.5 to 1.25	20 to 16	1.7 to 3.0 (.067 to .118)	3,500

Material and Finish
Phosphor bronze, tin-plated

Note: When using retainer mountable type housing, applicable wire's insulation O. D. shall be 1.7 to 2.2mm(.067" to .087").

Housing

N type

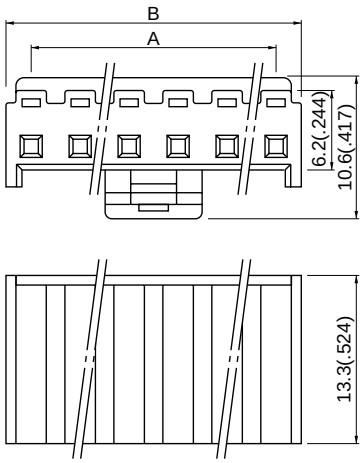


Cir-cuits	Model No.			Dimensions mm(in.)		Q'ty / bag
	N type	M type	Retainer mountable type	A	B	
2	**VHR-2N**	—	**VHRR-2N**	3.96(.156)	7.86(.309)	1,000
3	**VHR-3N**	**VHR-3M**	**VHRR-3N**	7.92(.312)	11.82(.465)	1,000
4	**VHR-4N**	**VHR-4M**	—	11.88(.468)	15.78(.621)	1,000
5	**VHR-5N**	**VHR-5M**	**VHRR-5N**	15.84(.624)	19.74(.777)	1,000
6	**VHR-6N**	**VHR-6M**	—	19.80(.780)	23.70(.933)	500
7	**VHR-7N**	**VHR-7M**	—	23.76(.935)	27.66(1.089)	500
8	**VHR- 8N**	—	**VHRR-8N**	27.72(1.091)	31.62(1.245)	500
9	**VHR- 9N**	**VHR-9M**	**VHRR-9N**	31.68(1.247)	35.58(1.401)	500
10	**VHR-10N**	—	—	35.64(1.403)	39.54(1.557)	500

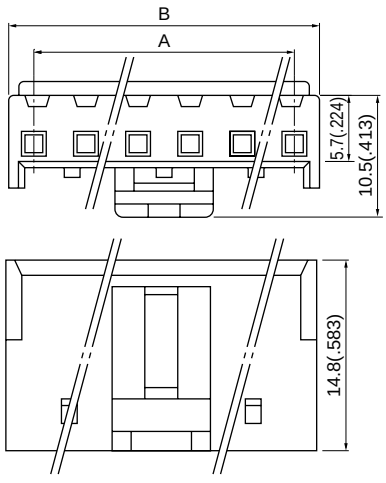
Material
Nylon 6, UL94V-0, natural (white)

Note: 1. Models identified as VHR-( ) M incorporate measures to prevent electric shock and are thus safer in regard to high voltages.
2. Models VHRR-( )N are not TÜV approved.

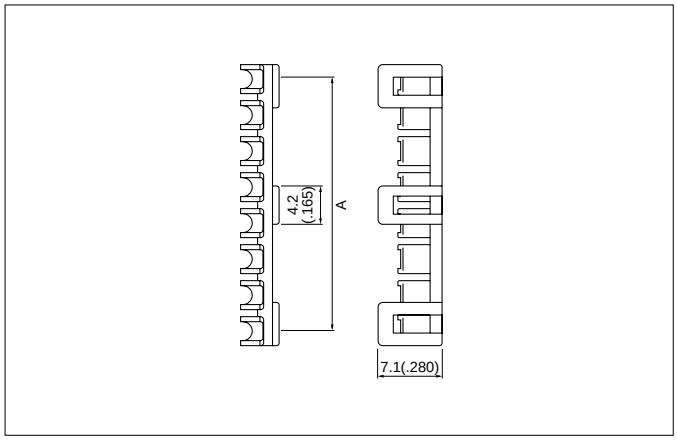
M type



Retainer mountable type



Retainer



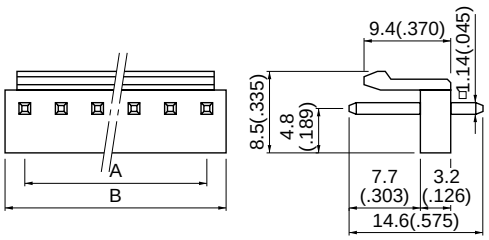
Circuits	Model No.	A	Q'ty / bag
2	**VHS-2V**	3.96(.156)	1,000
3	**VHS-3V**	7.52(.296)	1,000
5	**VHS-5V**	15.44(.608)	1,000
8	**VHS-8V**	27.32(1.076)	1,000
9	**VHS-9V**	31.28(1.231)	1,000

Material
Glass-filled nylon 66, UL94V-0, natural (ivory)

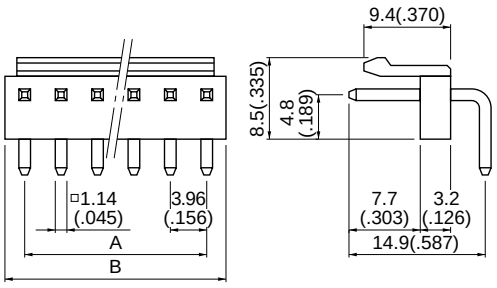
Note: Not CSA/TÜV approved.

Locking header

Top entry type



Side entry type



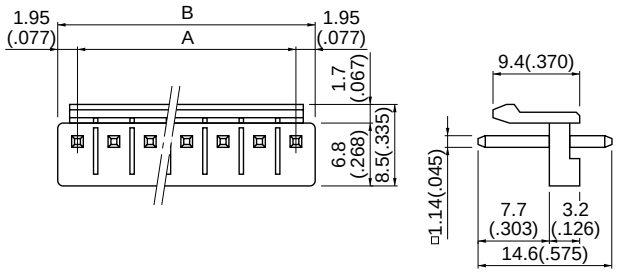
Cir-cuits	Model No.		Dimensions mm(in.)		Q'ty / box	
	Top entry type	Side entry type	A	B	Top entry type	Side entry type
2	**B 2P-VH**	**B 2PS-VH**	3.96(.156)	7.86(.309)	1,000	1,000
3	**B 3P-VH**	**B 3PS-VH**	7.92(.312)	11.82(.465)	1,000	500
4	**B 4P-VH**	**B 4PS-VH**	11.88(.468)	15.78(.621)	500	500
5	**B 5P-VH**	**B 5PS-VH**	15.84(.624)	19.74(.777)	500	250
6	**B 6P-VH**	**B 6PS-VH**	19.80(.780)	23.70(.933)	250	250
7	**B 7P-VH**	**B 7PS-VH**	23.76(.935)	27.66(1.089)	250	250
8	**B 8P-VH**	**B 8PS-VH**	27.72(1.091)	31.62(1.245)	200	200
9	**B 9P-VH**	**B 9PS-VH**	31.68(1.247)	35.58(1.401)	200	200
10	**B10P-VH**	**B10PS-VH**	35.64(1.403)	39.54(1.557)	200	200

Material and Finish
Post: Brass, copper-undercoated, tin/lead-plated Wafer: Nylon 66, UL94V-0, natural (white)

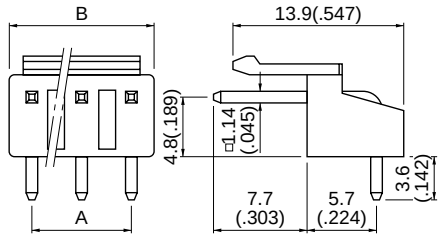
Note: Headers with a reduced number of posts are also available.
Contact JST for details.

Locking header

Top entry type of PBT



Side entry type with PCB stabilizer

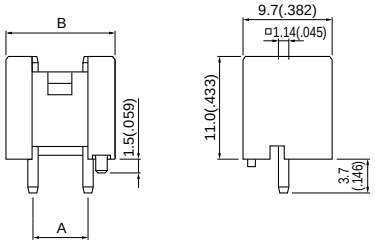


Cir-cuits	Model No.		Dimensions mm(in.)		Q'ty / box	
	Top entry type of PBT	Side entry type with PCB stabilizer	A	B	Top entry type	Side entry type
2	**B 2P-VH-B**	**S2P-VH**	3.96(.156)	7.86(.309)	1,000	1,000
3	**B 3P-VH-B**	**S3P-VH**	7.92(.312)	11.82(.465)	500	500
4	**B 4P-VH-B**	**S4P-VH**	11.88(.468)	15.78(.621)	500	500
5	**B 5P-VH-B**	—	15.84(.624)	19.74(.777)	250	—
6	**B 6P-VH-B**	—	19.80(.780)	23.70(.933)	250	—
7	**B 7P-VH-B**	—	23.76(.935)	27.66(1.089)	250	—
8	**B 8P-VH-B**	—	27.72(1.091)	31.62(1.245)	200	—
9	**B 9P-VH-B**	—	31.68(1.247)	35.58(1.401)	200	—
10	**B10P-VH-B**	—	35.64(1.403)	39.54(1.557)	200	—

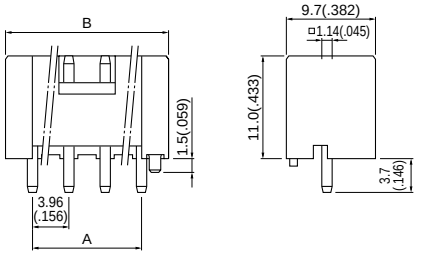
Material and Finish
Post: Brass, copper-undercoated, tin/lead-plated natural Wafer: Top entry type of PBT: Glass-filled PBT, UL94V-0, natural (ivory) Side entry type with PCB stabilizer: Nylon 66, UL94V-0, natural (white)

Shrouded header

(2 , 3 circuits)



(4 to 10 circuits)



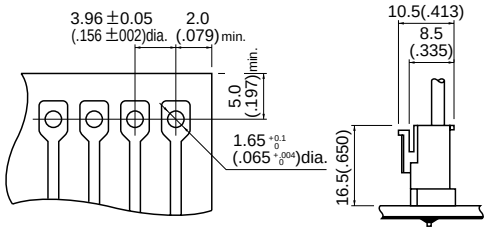
Circuits	Model No.	Dimensions mm(in.)		Q'ty / box
		A	B	
2	**B 2P-VH-FB-B**	3.96(.156)	9.80(.386)	250
3	**B 3P-VH-FB-B**	7.92(.312)	13.76(.542)	200
4	**B 4P-VH-FB-B**	11.88(.468)	17.72(.698)	—
5	**B 5P-VH-FB-B**	15.84(.624)	21.68(.854)	—
6	**B 6P-VH-FB-B**	19.80(.780)	25.64(1.009)	—
7	**B 7P-VH-FB-B**	23.76(.935)	29.60(1.165)	—
8	**B 8P-VH-FB-B**	27.72(1.091)	33.56(1.321)	—
9	**B 9P-VH-FB-B**	31.66(1.246)	37.52(1.477)	—
10	**B10P-VH-FB-B**	35.64(1.403)	41.48(1.633)	—

Material and Finish
Post: Brass, copper-undercoated, tin/lead-plated Wafer: Glass-filled PBT, UL94V-0, natural (white)

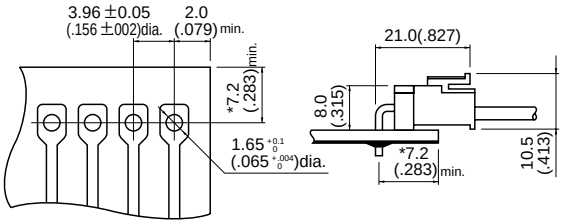
Note: Not CSA/TÜV approved.

PC board layout (viewed from soldering side) and Assembly layout

Locking header
Top entry type

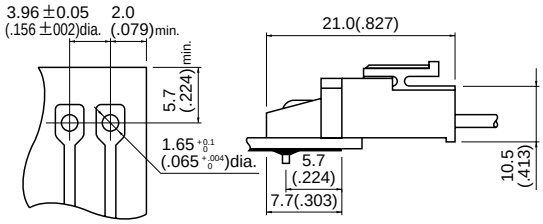


Locking header
Side entry type

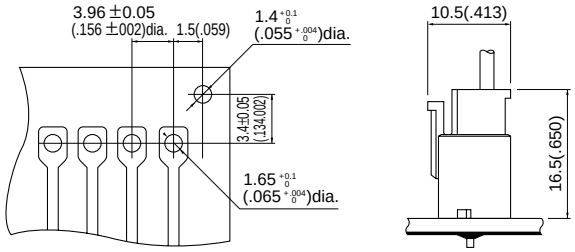


**11.0(.433) max. when used with the VR connector receptacle.*

Locking header
Side entry type with PCB stabilizer



Shrouded header



Note:
1. Tolerances are non-cumulative: ±0.05mm(±.002) for all centers.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline. Contact JST for details.